

1-Octanol**112615-2.5L**

Version 1.1

Revision Date 02/08/2022

Print Date 05/11/2023

SECTION 1. IDENTIFICATION

Product name : 1-Octanol

Number : 000000020704

Product Use Description : Laboratory chemicals

Manufacturer or supplier's details : Honeywell International Inc.
1953 South Harvey Street
Muskegon, MI 49442

For more information call : 1-800-368-0050
+1-231-726-3171(Monday-Friday, 9:00am-5:00pm)

In case of emergency call : **Medical: 1-800-498-5701 or +1-303-389-1414**
: **Transportation (CHEMTREC): 1-800-424-9300 or**
: **+1-703-527-3887**
:
: (24 hours/day, 7 days/week)

SECTION 2. HAZARDS IDENTIFICATION**Emergency Overview**

Form : liquid

Color : colourless

Odor : characteristic

Classification of the substance or mixture

Classification of the substance or mixture : Flammable liquids, Category 4
Eye irritation, Category 2A

GHS Label elements, including precautionary statements

1-Octanol**112615-2.5L**

Version 1.1

Revision Date 02/08/2022

Print Date 05/11/2023

Symbol(s)

:



Signal word

: Warning

Hazard statements

: Combustible liquid.
Causes serious eye irritation.

Precautionary statements

Prevention:
Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
Wash skin thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.

Response:
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/ attention.
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage:
Store in a well-ventilated place. Keep cool.

Disposal:
Dispose of contents/ container to an approved waste disposal plant.

Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula

: C₈H₁₈O

1-Octanol**112615-2.5L**

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Chemical nature : Substance

Chemical name	CAS-No.	Concentration
1-Octanol	111-87-5	100.00 %

SECTION 4. FIRST AID MEASURES

- General advice : First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately.
- Inhalation : When inhaled remove to fresh air and seek medical aid.
- Skin contact : Then wash with lots of water and soap. Consult a physician.
- Eye contact : Rinse thoroughly with plenty of water, also under the eyelids. Protect unharmed eye. Remove contact lenses. Call a physician immediately.
- Ingestion : When swallowed, allow water to be drunk. Call a physician immediately.

Notes to physician

- Most important symptoms/effects, acute and delayed : No information available.
- Indication of immediate medical attention and special treatment needed, if necessary : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray
Foam
Carbon dioxide (CO2)
Dry powder
- Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

1-Octanol**112615-2.5L**

Version 1.1

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- Specific hazards during firefighting : Combustible liquid and vapour.
Fire may cause evolution of:
Carbon monoxide
Carbon dioxide (CO₂)
- Special protective equipment for firefighters : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.
- Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.
Wear personal protective equipment. Unprotected persons must be kept away.
Ensure adequate ventilation.
Remove all sources of ignition.
Avoid inhalation of vapour or mist.
Avoid contact with skin, eyes and clothing.
- Environmental precautions : Prevent further leakage or spillage if safe to do so.
Do not flush into surface water or sanitary sewer system.
- Methods and materials for containment and cleaning up : Ventilate the area.
Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

SECTION 7. HANDLING AND STORAGE**Handling**

- Precautions for safe handling : Wear personal protective equipment.
Use only in well-ventilated areas.
Avoid inhalation of vapour or mist.
Avoid contact with skin and eyes.
- Advice on protection against fire and explosion : Keep away from sources of ignition - No smoking.
Normal measures for preventive fire protection.

1-Octanol**112615-2.5L**

Version 1.1

Revision Date 02/08/2022

Print Date 05/11/2023

Storage

Conditions for safe storage, including any incompatibilities : Store in area designed for storage of flammable liquids. Protect from physical damage.
Store in original container.
Keep containers tightly closed in a dry, cool and well-ventilated place.

Further information on storage conditions : Plastic materials can be attacked.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective measures : Ensure that eyewash stations and safety showers are close to the workstation location.
Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment.
Avoid inhalation of vapour or mist.
Avoid contact with skin, eyes and clothing.

Engineering measures : Use with local exhaust ventilation.

Eye protection : Safety goggles

Hand protection : Wear nitrile rubber gloves to avoid contact with the skin.
Gloves must be inspected prior to use.
Replace when worn.

Skin and body protection : Protective suit

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

Exposure Guidelines

Contains no substances with occupational exposure limit values.

1-Octanol**112615-2.5L**

Version 1.1

Revision Date 02/08/2022

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: liquid
Color	: colourless
Odor	: characteristic
Odor threshold	: Note: No data available
pH	: Note: Not applicable
Melting point/range	: -15 °C
Boiling point/boiling range	: 194 °C at 1,013 hPa
Flash point	: 176 °F (80 °C) Method: closed cup
Evaporation rate	: Note: No data available
Lower explosion limit	: 0.8 %(V)
Upper explosion limit	: Note: No data available
Vapor pressure	: ca. 0.764 mbar at ca. 38 °C(100 °F)
Vapor density	: Note: No data available
Density	: 0.827 g/cm ³ at 25 °C
Water solubility	: 107 mg/l at 23 °C

1-Octanol**112615-2.5L**

Version 1.1

Revision Date 02/08/2022

Print Date 05/11/2023

Ignition temperature	: ca. 294 °C at 1,013 hPa Method: ASTM E 659
Decomposition temperature	: Note: No decomposition if used as directed.
Viscosity, dynamic	: Note: No data available
Viscosity, kinematic	: 5.58 mm ² /s at 40 °C Method: ASTM D 445
Molecular weight	: 130.23 g/mol

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Not classified as a reactivity hazard.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Hazardous polymerisation does not occur.
Conditions to avoid	: Heat, flames and sparks.
Incompatible materials	: Strong oxidizing agents Acids Acid chlorides
Hazardous decomposition products	: Fire may cause evolution of: Carbon monoxide Carbon dioxide (CO ₂)

SECTION 11. TOXICOLOGICAL INFORMATION

1-Octanol**112615-2.5L**

Version 1.1

Revision Date 02/08/2022

Print Date 05/11/2023

Acute oral toxicity	: LD50: > 5,000 mg/kg Species: Rat Method: OECD Test Guideline 401
Acute inhalation toxicity	: Note: Not classified due to data which are conclusive although insufficient for classification.
Acute dermal toxicity	: LD50: 2,000 - 4,000 mg/kg Species: Rabbit
Skin irritation	: Species: Rabbit Result: slight irritation Method: OECD Test Guideline 404
Eye irritation	: Species: Rabbit Result: irritating Method: OECD Test Guideline 405
Sensitisation	: Note: Not classified due to data which are conclusive although insufficient for classification.
Repeated dose toxicity	: Note: Not classified due to data which are conclusive although insufficient for classification.
Genotoxicity in vitro	: Cell type: Mouse lymphoma cells Metabolic activation: with and without metabolic activation Result: negative Method: OECD Test Guideline 476
Genotoxicity in vivo	: Species: Mouse Cell type: Bone marrow Application Route: Oral Method: OECD Test Guideline 474 Result: negative

1-Octanol**112615-2.5L**

Version 1.1

Revision Date 02/08/2022

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SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Toxicity to fish : flow-through test
LC50: 13.5 mg/l
Exposure time: 96 h
Species: Pimephales promelas (fathead minnow)
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50: 23 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)

Toxicity to algae : static test
EC50: 14 mg/l
Exposure time: 48 h
Species: Desmodesmus subspicatus (green algae)
Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : semi-static test
NOEC: 1 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211

Elimination information (persistence and degradability)

Biodegradability : aerobic
Result: Readily biodegradable
Value: 92 %
Method: OECD Test Guideline 310

Further information on ecology**SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods : Observe all Federal, State, and Local Environmental

1-Octanol**112615-2.5L**

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Revision Date 02/08/2022

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regulations.

SECTION 14. TRANSPORT INFORMATION**DOT** Not dangerous goods**TDG** Not dangerous goods**IATA** Not dangerous goods**IMDG** Not dangerous goods**SECTION 15. REGULATORY INFORMATION****Inventories**

US. Toxic Substances Control Act : On TSCA Inventory

Australia. Industrial Chemicals Act (AICC), as amended : On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL) : All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List : On the inventory, or in compliance with the inventory

Korea. Existing Chemicals Inventory (KECI) : On the inventory, or in compliance with the inventory

Philippines. Inventory of Chemicals and Chemical Substances (PICCS) : On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances (IECSC) : On the inventory, or in compliance with the inventory

New Zealand. Inventory of : On the inventory, or in compliance with the inventory

1-Octanol**112615-2.5L**

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Chemicals (NZIoC), as
published by ERMA New
Zealand

National regulatory information

- SARA 302 Components** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
- SARA 313 Components** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
- SARA 311/312 Hazards** : Fire Hazard
Acute Health Hazard
- California Prop. 65** : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Pennsylvania RTK : 1-Octanol 111-87-5

Volatile organic compounds : Switzerland. VOC Ordinance, Annex II (Products)
0 %
Not applicable

SECTION 16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 1	1
Flammability	: 2	2
Physical Hazard	: 0	

1-Octanol**112615-2.5L**

Version 1.1

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Print Date 05/11/2023

Instability : 0

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group